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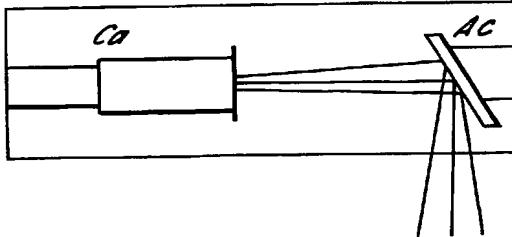
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(54) Title: X-RAY DIFFRACTION METHOD



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(57) Abstract: An X-ray diffraction method for the analysis of polycrystalline materials, the method comprising:(a) providing a polycrystalline material for analysis; (b) providing a polychromatic X-ray source, wherein the source produces X-rays by accelerating charged particles to energies of no more than 1 MeV; (c) collimating X-rays from the polychromatic X-ray source into a beam having a divergence in the range of from  $10^{-4}$  to  $10^{-2}$  radians;(d) exposing at least a portion of the polycrystalline material to the collimated X-ray beam, whereby the beam is diffracted;(e) collecting at least some of the diffracted X-rays in an energy dispersive X-ray detector or array; and(f) analysing the collected, diffracted X-rays.

## INTERNATIONAL SEARCH REPORT

Application No  
PCT/GB 03/00283A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01N23/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|----------|---|-----------------------|
| X        | US 6 072 853 A (HALL CHRISTOPHER)<br>6 June 2000 (2000-06-06)<br>abstract<br>column 5, line 16 -column 6, line 40;<br>figure 1<br>---               | 1-23                  |
| A        | US 5 265 144 A (HARDING GEOFFREY DR ET AL)<br>23 November 1993 (1993-11-23)<br>abstract<br>column 3, line 10 -column 4, line 26;<br>figure 1<br>--- | 1-23                  |
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| Patent document cited in search report | Publication date |                      | Patent family member(s)                              |  | Publication date                                     |
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# Patent Assignment Abstract of Title

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